

AMENDMENTS TO THE CLAIMS**Listing of Claims:**

1. (Previously presented) A method for the fermentative production of L-methionine, which comprises the following steps:

- a) fermenting in a medium cells of a coryneform bacterium for producing L-methionine, the coryneform bacteria expressing at least one heterologous nucleotide sequence which codes for a protein with methylenetetrahydrofolate reductase (metF) activity, wherein said heterologous nucleotide sequence comprises a nucleotide sequence encoding a metF protein having an amino acid sequence as set forth in SEQ ID NO: 2 or comprises a nucleotide sequence encoding a metF protein having an amino acid sequence with 95% homology or more to the sequence as set forth in SEQ ID NO: 2;
- b) concentrating L-methionine in the medium or in the bacterial cells, and
- c) isolating L-methionine.

2-4. (Cancelled).

5. (Previously presented) The method as claimed in claim 1, wherein the metF-encoding sequence comprises a coding sequence as set forth in SEQ ID NO:1.

6. (Previously presented) The method as claimed in claim 1, wherein the metF-encoding sequence codes for a protein with metF activity, said protein comprising an amino acid sequence as set forth in SEQ ID NO:2.

7. (Previously presented) The method as claimed in claim 1, wherein the coding metF sequence is a DNA or RNA which can be replicated in coryneform bacteria or is stably integrated into the chromosome.

8. (Previously presented) The method as claimed in claim 7, wherein

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- a) a bacteria strain transformed with a plasmid vector carrying at least one copy of the coding metF sequence under the control of regulatory sequences is used, or
- b) a strain in which the coding metF sequence has been integrated into the bacteria chromosome is used.

9. (Previously presented) The method as claimed in claim 1, wherein the coding metF sequence is overexpressed.

10. (Previously presented) The method as claimed in claim 1, wherein bacteria are fermented in which additionally at least one further gene of the biosynthetic pathway of L-methionine has been overexpressed.

11. (Cancelled).

12. (Currently amended) The method as claimed in claim 1, wherein coryneform bacteria are fermented in which, at the same time, at least one of the genes from among

a) a lysC gene derived from *C. glutamicum* a coryneform bacterium, which encodes an aspartate kinase,

b) the glyceraldehyde-3-phosphate dehydrogenase-encoding gene gap.

c) the 3-phosphoglycerate kinase-encoding gene pgk.

d) the pyruvate carboxylase-encoding gene pyc.

e) the triose phosphate isomerase-encoding gene tpi.

f) the homoserine O-acetyltransferase-encoding gene metA.

g) the cystathionine gamma-synthase-encoding gene metB.

h) the cystathionine gamma-lyase-encoding gene metC.

i) the serine hydroxymethyltransferase-encoding gene glyA.

j) the O-acetylhomoserine sulphydrylase-encoding gene metY.

k) the vitamin B12-dependent methionine synthase-encoding gene metH.

l) the phosphoserine aminotransferase-encoding gene serC.

m) the phosphoserine phosphatase-encoding gene serB.

n) the serine acetyltransferase-encoding gene cysE. or

o) the hom gene, which encodes a homoserine dehydrogenase,
is overexpressed.

13. (Cancelled).

14. (Previously presented) The method as claimed in claim 1, wherein the coryneform bacterium is of the species *Corynebacterium glutamicum*.

15-16. (Cancelled).

17. (Currently amended) A method for the production of L-methionine, which comprises the following steps:

- a) fermenting in a medium cells of a coryneform bacterium for producing of L-methionine, said coryneform bacteria expressing at least one heterologous nucleotide sequence which codes for a protein with [[with]] methylenetetrahydrofolate reductase (metF) activity, wherein the heterologous nucleotide sequence comprises a nucleotide sequence having 95% identity or more to the sequence as set forth in SEQ ID NO: 1;
- b) concentrating L-methionine in the medium or in the bacterial cells; and
- c) isolating L-methionine.

18. (Previously presented) The method of claim 17, wherein the coding metF sequence is a DNA or RNA which can be replicated in coryneform bacteria or is stably integrated into the chromosome.

19. (Previously presented) The method of claim 17, wherein

- a) a bacteria strain transformed with a plasmid vector carrying at least one copy of the coding metF sequence under the control of regulatory sequences is used, or
- b) a strain in which the coding metF sequence has been integrated into the bacteria chromosome is used.

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20. (Previously presented) The method of claim 17, wherein the coding metF sequence is overexpressed.
21. (Previously presented) The method of claim 17, wherein bacteria are fermented in which additionally at least one further gene of the biosynthetic pathway of L-methionine has been overexpressed.
22. (Previously presented) The method of claim 17, wherein the coryneform bacterium is of the species *Corynebacterium glutamicum*.
23. (New) The method as claimed in claim 1, wherein coryneform bacteria are fermented in which, at the same time, a lysC gene derived from a coryneform bacterium, which encodes an aspartate kinase, is overexpressed.
24. (New) The method as claimed in claim 23, wherein the lysC gene is derived from *C. glutamicum*.